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VOL. XXIV.

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CHOLERA.

JONES ON FUNCTIONAL NERVOUS DISORDERS.

Cholera .- The views of Prof. Geo. John- nature in her efforts. son, in regard to cholera, are entitled to a respectful consideration, not only from the us to be purely hypothetical, and the legitigreat ingenuity with which they are en- mate deduction from his premises eminently forced, and the learning and high position dangerous. of the writer, but also because they have been accepted as correct by a number of detail. we ventured to point out some facts which in the blood.—The existence of a poison we ventured to point out some facts which in the blood.—The existence of such poison appeared to us to be irreconcilable with has never been demonstrated, and without his docurines, and we shall now endeavour to denying that such a poison may be a reality, indicate some others, which seem to us in- it must be conceded that there are some explicable by his hypothesis.

Prof. Johnson's views are based upon explicable by such an hypothesis. three propositions, viz: 1st. That cholera The prevalence of the disease in any one is produced by a poison which enters into {locality as an epidemic has, generally, a the blood. 2d. That this poison acts first limited duration-usually about from four on the capillary arteries of the lungs, causing to six weeks—it has its regular period of a spasm in them which prevents the blood increase, climax, and decline. The first from reaching these organs. 3d. That the cases are the most malignant, and after the discharges from the bowels are the result of disease has reached its climax it then de-

and lastly, he concludes that the proper treatment of the disease consists in aiding

Each of the above propositions appears to

We will examine these propositions in

facts in the history of the disease not easily

an effort of nature to eliminate the poison; creases in violence and ceases. Now, were

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the cholera propagated by a poison, and his admirable report to the Royal College especially were this poison the product of of Physicians in treating of the post-mortem the dejections, as it is, in some way, usually appearances of the lungs, states :believed to be, does it not seem strange that at the commencement of an epidemic when there is less of this poison generated the disease should be most violent and its victims most numerous; and at its climax when there is most of this poison produced, that the disease should then decrease and gradually cease?

The only attempt to explain this is by the supposition that the disease ceases because there are no more subjects susceptible to the influence of the poison. This is an endeavour to sustain one hypothesis by another equally without foundation.

Dr. William Baly, in his elaborate report to the Royal College of Physicians, remarks :-

"Moreover, there are reasons for believing that the cessation of the disease in a town is not owing to all persons susceptible of it having already been exposed to its cause and affected by it. In the first place, the disease may cease in a town, or a large public institution, and then after a short interval be renewed-as many persons suffering from it, in this renewed outbreak, as in the former one. An example of this is met with in the case of Sunderland, where a slight attack, between the months of October, 1848, and January, 1849, was succeeded, after more than a month's complete interval, by a second attack of far greater severity; this again being followed, after two months' interval, by a third outbreak of a still more serious character. It is not likely that, in this instance, the disease ceased in the two earlier outbreaks, because all the persons still susceptible of the disease, through some strange concurrence of circumstances, failed to be exposed to the contagious influence." (p. 50.)

2d. With regard to the spasm of the pulmonary capillaries .- This is not susceptible of demonstrative proof, and all that Prof. Johnson can adduce in support of the hypothesis is what he calls the anemic condition of the lungs, found after death. If the choleraic poison acted primarily on the pulmonary arteries it might be reasonably supposed that it would occasion some recognizable lesion. But Drs. Pennock and Gerhard, Foy, Gendrin, Bouillaud, Leudet, and indeed, nearly all observers represent

"In the majority of cases fatal in the algide stage, no other morbid change existed than engorgement of the lower and posterior parts of the lungs with dark blood. In some instances this was so complete as to cause portions of the pulmonary tissue, to sink in water. The anterior and superior parts were drier than natural. In only one case reported to us was there any degree of cedema. In certain cases the pulmonary tissue throughout was full of dark blood.

"The bronchial tubes were normal in appearance, or their mucous membrane was congested. They contained a small amount of frothy serum, sometimes tinged with blood." (p. 38)

Lendet states: "The lungs were commonly healthy, in two instances there was pulmonary apoplexy: frequently hypostatic congestion," "bronchi congested."

The above facts are subversive of Prof. Johnson's hypothesis.

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3d. As regards the dejections being an effort of nature to eliminate a poison from the blood. - This proposition is as purely hypothetical as the preceding ones. The existence of such a poison, either in the blood or in the dejections, has not been proven, and if it were it would not be giving much credit to nature for sagacity, in supposing that she resorted to so dangerous a means of getting rid of this poison as by excessive vomiting and purging, whereby the blood is deprived of its nutritive materials and its most important anatomical element - water - leaving the remaining portion of the sanguineous fluid utterly unfit for the purposes of life.

Even admitting the existence of a poison in the blood, it is by no means certain that it is possible to eliminate it by purgatives or by any effort of nature.

Dr. C. Handfield Jones, in a recent article (British Medical Journal, May 5, 1866). remarks: "The analogy of most other diseases of a toxic kind would lead us to think that the morbific action is to be counteracted rather by endeavours to prevent its morbid effects, or to strengthen and hold up the vital forces against it, than by any process of elimination. Thus we deal best with malarious disorders, continued fevers, influenza, erysipelas, snake-bite, and most the lungs as healthy. Dr. William Gull, in cases of the exanthemata. In fact, except

perhaps in the cases of saturnine and uramic thirty grains of sesquicarbonate of soda in a intoxication, I doubt whether we have any wineglassful of strong mint tea. The dose power whatever to procure the separation was repeated every half hour. No fatal of a poison from the system. How obsti- case occurred. 'The disease was arrested nately the syphilitic clings to its victim!"

two epidemics and that we believe of all practitioners, shows that in the early stages of cholera no more fatal course can be persued than the administration of active catharties, and especially such as are most eminently evacuant, as those belonging to the saline and hydragogue class. They precipitate the patient speedily into collapse. A large dose of croton oil will bring on phenomena hardly distinguishable from those of cholera.

Dr. Goodeve, in a recent article on epidemic cholera in Reynold's System of Medicine, enumerates among the causes of cholera the noxious effects of purgative medicines. He says "numerous Indian writers recognize the mischief produced by these. believe that this is not confined to the saline and hydragogue purgatives only. have seen milder purgatives followed by cholera."

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The most judicious and experienced practitioners of the present day recommend that the diarrhoa be arrested as early as possible -except where the bowels are filled with undigested matter, when a very mild laxative may be premised - by perfect rest, opiates, volatile and diffusible stimulants in moderate doses, mild diet, as beef tea, arrowroot, etc., and small portions of ice or cold water.

Prof. Johnson, in a reply to Dr. Jones' article, published in the British Medical Journal for 12th May, which came to hand after this article was in type, makes an ad-MEVS :-

"It is an indisputable fact, that a large proportion of cases of choleraic diarrhœa will terminate in recovery under the use of the simplest possible remedies which are wholly free from astringent properties. Thus the late Mr. Wakefield, who was surgeon to the Middlesex House of Correction during the last epidemic of cholera The writer of this suffered from an attack in 1854, stated in a letter to the Times, that of cholera in 1832, which though it was ar-

with a rapidity that was quite magical,' and All clinical experience is equally opposed he had rarely occasion to administer the to this doctrine. Our own observation in dose more than three times before the sickness and diarrhea was arrested. While under treatment, the patient was confined to a diet of beef tea, cocoa, or arrowroot; nothing solid, not even bread, being allowed while the diarrhosa continued. Now, this plan of treatment, which was remarkably well suited for allowing full play to the curative efforts of nature, can scarcely be supposed to have had any direct remedial effect, and it was certainly not an astringent treatment; yet the results were in the highest degree satisfactory.

Now this treatment of Mr. Wakefield's cannot be claimed to have been an eliminative one, and surely did not promote evacuations from the bowels, but was calculated to. and did check them. If then this treatment is highly satisfactory to Prof. Johnson, it certainly is so to us, and perfectly harmonizes with the views we have been endeavouring

to inculcate.

In our next number we shall endeavour to show that it is upon the mucous membrane of the intestinal tube that the cause of cholera exerts its principal force-that it is there the most constant and greatest pathological changes are found-and that from the excessive secretion from that membrane which deprives the sanguineous fluid of its nutritive materials and most important anatomical element, is due the other prominent phenomena of the disease.

While we greatly distrust the assertion that patients have died of cholera, without having had any evacuation, and that death mission which is virtually an abandonment therefore cannot have been caused by the of his doctrine of elimination, though of changes in the blood resulting from the decourse he does not so intend it. Thus he jections; we are not disposed to deny that the abdominal ganglionic and spinal nervous systems may be simultaneously affected. It is true that we have no conclusive pathological proofs of this-unless the muscular spasms, movements of the muscles after death, and unusually early occurrence of rigor mortis be accepted as such-but there are some clinical facts which lend it support. he had treated upwards of 150 cases of cho-{ rested before profound collapse resulted, his leraic diarrhoa amongst the prisoners by nervous system was so profoundly affected that it was not until after several months Morris says, were 'lividity of the line. that its tone was restored.

Non-contagiousness of Cholera - We invite attention to the following extract from the very sensible and admirable lectures on cholera by Prof. A. CLARE, lately published in the Medical Record, and which appear to us to be conclusive as to the non-contagiousness of cholera.

After quoting some of the strongest facts adduced in support of the belief in the contagiousness of cholera he observes :-

"Such are the facts and cases that are cited in support of the theory of contagion. Now, on the other hand, I will give you some statements and reports that seem to be altogether incompatible with the idea that the disease is communicable by personal contagion.

"It will occur to your own reflections, that if cholera was contagious in Cumberland or in Columbia, it will be contagious everywhere. Typhus is contagious in dwellings and in hospitals, in village and town, in summer and in winter. If the term 'contingent contagion' means anything, it can only be used in relation to the state of the individual-his power to resist contagion. The contagious principle is always the same: contingency cannot be predicated of it; nor is it apposite to say that one affirmative fact outweighs scores of negative ones, for the facts in this case are the occurrences of cholera as described. These are not doubted. The question at issue is, will these occurrences admit of any other explanation than the supposed contagion? If, then, it can be shown that in the broad study of the disease it is not spread directly by emanations from the sick, then the occurrences at Cumberland must have some other explanation, whether we have knowledge enough to make that explanation or

"Dr. Morris states that in the Massachusetts State Prison, at midnight, July 27th, 1854, he was called to see a coloured convict suffering from a choleraic attack. He had been in solitary confinement for seven years. Before Dr. Morris could get to bed again, { he was called to four other prisoners, who with the person first attacked. had been attacked in different parts of the prison. During the next day, the succeed- somewhat aided by considering the history ing night, and the following day, the cases of hospitals, and the liability of nurses and multiplied; so that, in forty-eight hours, physicians to the disease. Dr. Vanderveer

painful cramps, vomiting and purging, cold extremities, and in a few instances suppression of the urine.' On the 27th of July, the day had been very hot, and by a sudden change the night was very cold.

"A man who had been confined seven vears in his cell, having no communication even with the prisoners in the institution, is the first to be seized. Suspicion was aroused that the food might be poisonous. but on examination it was found good and wholesome.

"Dr. Trask gives the following account of the outbreak of cholera in the Westchester Poor-House, in 1849 :-

"'Up to this time [the time of the outbreak], there had been no case of cholera, so far as I can learn, between this place [White Plains] and New York [twentyeight miles), nor was there any evidence of its introduction from that city.3

the same of the call in the ca

"Suddenly, two men sleeping in beda almost adjoining, were seized with cramps, vomiting, and diarrhoa, after midnight, and before noon, both were dead. On the same day a female at the opposite end of the establishment was similarly attacked, and died in twenty-four hours. There were forty-seven cases, and twenty-seven deaths, among about one hundred and fifty inmates. He soon learned that diarrhoa had been prevailing in the establishment, and that most, if not all of those suddenly attacked had had this affection for some time.

"Parallel instances could be multiplied indefinitely. The whole history of cholers seems to look to another cause than contagion for its origin. As it began in European towns, it was almost always preceded by diarrhosa and colicky pains, and occasionally by cholera-morbus; and when at length it made its appearance, it often seized upon some person or persons who had not been out of town for a long time, between whom and infected places no connection could be traced, living in a very unhealthy locality; and at very nearly the same time other persons were seized in similar negative relations to the outside disease, and who had had no communication

"The settlement of the question can be two hundred and five were more or less gives an account of a little hospital of which severely affected. The symptoms, Dr. he had charge in Franklin Street, in this

city, in 1854, where, it would seem, were nounce complete exemption of the physinurses slept in small adjoining rooms opentheir rooms were constantly open for ventilation; that the back yard, 20×30, inclosed by a wall twelve feet high, furnished room for the kitchen, water-closets, autopsyroom, wash-house; and a part of this space was reserved for the dead bodies, which were accumulated once to the number of ten, and till they became offensive. He says that the physicians made seventyeight post-mortem examinations; that their hands, bathed in the choleraic fluids, were often wounded; that there were twenty physicians, nurses, and attendants, and that the only one of the twenty who had cholera, or any symptoms of cholera, was a sedancarrier of temperate habits, who resigned his place because his work was too hard, and five days after was brought to the hospital in a dying condition.

"Here is a little pent-up place with watercloset, dead-house, and the dead piled up in coffins and exposed to the heat and sun, and shut in by a wall twelve feet high; the ace full, the wards crowded, and the physicians and attendants, in effect, sleepig in the wards, and yet no one takes the disease. Histories of hospitals which teach the same lesson, few, however so emphatically, could be accumulated in our own country. From the European hospitals the patients died. same story comes. They do not all an-

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essembled all the conditions necessary to cians and attendants; but without any exgive contagion force, if the disease is com-{ception, the mortality is declared to be municable in this way. He states that he moderate-not exceeding what should be had two wards, one above the other, the ascribed to the general liability, aided by lower 25 x 35 feet, the upper, 25 x 30; that { fatigue and loss of sleep, and, on the part of there were at times twenty five patients in | nurses and attendants, often by intemperate each of them; that the physicians and habits. The physicians of cholera hospitals are rarely contagionists. The history of ing into the wards, and that the doors of cholera hospitals does not sustain the doctrine of contagion; and here, if anywhere, contagion should be demonstrated. Out of almost countless reports that authorize these statements, I select the following table drawn up for the report of Drs. Gull and Baly, referring to the general hospitals of London in 1849.

"Examine this table attentively. Guy's Hospital did not admit persons attacked with cholera; yet one in 163 of its inmates, and one nurse to 490 patients, died of that disease. Five of these institutions admitted the disease, but confined the patients to particular wards. They had an aggregate of 1466 general patients, and 381 deaths from cholers. Multiplying the deaths by two, the usual hospital ratio between cases and deaths, the product, 762, will be about the number of cholera patients admitted. The deaths by cholera among other patients were one in 147, and among nurses one to 371 patients, including those admitted with cholera. Three hospitals, with an aggregate of 750 patients, received probably about 150 persons sick with cholera (deaths seventy-seven), and they were distributed among other patients. The deaths among these other patients were three, or one in 250; and of the nurses only one to 900

Hospital.	No. of Patients.	No. of Deaths among Patients admitted with Cholers.	No. of Deaths from Cholera among other Patients.	No. of Deaths by Cholers among Nurses.	How the Cholera Patients were distributed in the Hospital.
Guy's Hospital	490	miles.	3 23	1	No cholera patients admitted.
St. Bartholomew's	500	198	1	1	Cholera patients in special wards,
t. Thomas's Hospital	430	66	6	3	
London Hospital	330	40	None.	None.	
University Hospital .	110	40 81	1	None,	
King's College Hospital	96	46	2	2	
Middlesex Hospital .	300	80	None.	None.	Distributed among other patients.
SHEET STATE OF THE STATE OF		10	Two Surgical)	The second secon
M. George's Hospital .	300	11	and	11	ti ii ii ii
March Committee of the	\$ 500	TO THE STATE OF	one Medical.	1	CONTRACTOR CONTRACTOR OF THE
Westminster Hospital	150	37	None.	None.	

cumulative, and to the best of my recollection nearly uniform from cholera hospitals, that nurses, while they incur the general risks during an epidemic, aside from the effects of fatigue and the excessive use of intoxicating drinks, are not in any degree specially exposed to the disease. I may say, in parenthesis, that I believe there is no fact better established than that intemperate persons are especially liable to cholera. The same statement may be made of those who are employed in rubbing and bathing the sick; of those who empty and cleanse the vessels which receive the discharges; of those who are engaged in transporting the sick, and of those who remove the dead.

"But there is a class of nurses and attendants who are more exposed to the disease than those who are usually employed in cholers hospitals. I refer to such as are engaged in the service of the sick within institutions when the disease has become epidemic. An example or two will make the point clear. In seventeen public lunatic asylums in England (Baly and Gull, 1849) visited by cholera, the total number of patients was 3639; of these 454 were attacked, and 311 died. In the same seventeen institutions there were 407 nurses. attendants and resident officers, of whom eighteen were attacked and six died, or thus-

Attendants attacked, 1 in 23; died, 1 in 68. 1 in 8; " 1 in 12.

In the Milbank prison, containing at the time 1107 prisoners, twenty persons were charged with the care of the sick, and there were 178 persons who were by their offices not brought in contact with them, or only occasionally. The deaths among the prisoners were forty-eight, or one in twenty-three; among the nurses one, or one in 20; among other persons (including guards, clerks, etc.), one, or one in 178. Take these two accounts together and it is clear that, so far as the evidence goes, in institutions where cholera is epidemic, nurses are no more liable to the disease than other inmates, making exception for those whose hygienic surroundings were of a more protective character-indeed, in the

"Throughout England, indeed all Europe, in the statistical estimate on the positive and from our own country, the testimony is side, though significant in its negative relations.

"It does not appear that physicians who are attending cholera patients are more liable to the disease than others; indeed physicians seem to possess more than usual immunity. The number who have died in this city in the various epidemics is small, I have no statistics at hand to guide me, but I am confident that the percentage of mortality among them is less than among persons in the same social rank unconnected with the profession.

"Dr. Buel says, referring to the epidemic of 1854, of the Centre Street and Twentythird Street hospitals, 'there were at different times eight or nine medical attendants, several of whom spent their whole time in the hospitals, eating and sleeping there, and no one took the disease;' and then adds, 'among the physicians attending five cholera hospitals, and the various other public institutions in which cholera prevailed extensively, there was not a fatal case, and only two were heard of that had the disease.' How sadly the records of typhus fever contrast with these statements, let the honoured names engraven on the mural tablet in this Hall testify; let the stricken families, that by a dire conscription are forced to contribute, year by year, their brightest ornament to swell the list of professional victims; let the bereaved and mourning, on whom my words now fall like the knell whose echoes have scarcely ceased, bear witness. An epidemic typhus in a hospital, I might also say, spares none; while epidemic cholers in hospitals assails so few, that we find no danger in such service beyond what pertains to the general epidemic influences.

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"In considering facts like these, then, we are obliged to modify the opinion that might be formed from such striking instances as those of the Tooting School and those at Cumberland. Such occurrences can, indeed, be explained upon the general doctrine that there was an atmospheric condition that predisposed to the disease, and that the elements of the special poison were present and ready to combine whenever the ferment should be introduced; and that the ferment was in some way brought lunatic asylume, that they were greatly less by the infected persons to each locality. In liable than others; while the one death in the case of the Tooting children, however, the prison makes a very unimportant figure the disease did not become epidemic,

strictly speaking, in more than one of the five institutions. In the others, one to several of the 'attendants' suffered from the disease. In these instances the poison may have been imported, and not reproduced. This view receives support from the fact that 'several asylums and workhouses to which the Tooting children were sent were not visited by the disease,' although children died in them.

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"There is another point that I must speak of, relating to the communicability of cholera. Drs. Baly and Gull directed particular attention to the question whether washerwomen, who were employed in purifying the clothes soiled by cholera patients, were particularly liable to the disease. They state that they had eightyfour communications relating to this matter; that in general when washerwomen took and it was difficult to determine whether there was any special danger in their occupation. They sum up by saying there were only seven instances in the eighty-four in which the evidence seemed fairly to establish connection between cholera and the clothes. At the same time they say the women who washed the clothing for the Tooting children escaped entirely; and of he thirty women in the laundry of the Milbank prison, not one was affected; while of one hundred women employed in other capacities through the prison, eight took the disease. The liability, then, even for the washerwomen, is not very great; it is perhaps a little greater than for nurses, as it is a little more for nurses than for physicians. But even if it were established that this occupation is especially dangerous, further inquiry would be necessary to determine whether the danger arises from a personal oison or a miasm imported with the clothes."

Prophylactic Arrest of Asiatic Cholera .-Dr. HENRY MACCORMAC states (Medical) Press and Circular, June 6, 1866) that "if there be a therapeutic fact more certain than another, it is that our success in the treatment of Asiatic cholera will, cateris aribus, be in the exact ratio of the recency

ample, after a system of house-to-house visitation, during cholera periods, had been once fairly organized, the mortality was surprisingly small. Cases of premonitory diarrhoa, for example, that, if neglected, would have run on to intractable and perhaps fatal cholera, were arrested by means of an opium pill and an opiate draught, with a mortality actually not exceeding one in 1,400. Nothing could be more astonishing or more entirely satisfactory. Nevertheless, numbers perished owing to neglect. The preliminary purging was either not checked at all, or having been partially checked recurred again, and not being again checked, eventuated in the fully-formed and fatal disease. I proved the fact myself in very, very many instances. Going among the dying and the dead, I have asked those about-Do you purge !- Yes. Very well, the disease, they were surrounded by the open your mouth; whereupon I could throw same influences that produced it in others, { into the mouth and command them then and there to swallow a good grain or so of opium twitched from a lump of soft opium, which I always carried in my pocket for the express purpose. At the same time, and from the same source, I would produce a bottle of laudanum or Battley, and give 20 or 30 drops of the solution in a little water, taking care to leave a like dose to be repeated at bedtime or sooner upon an emergency. I remember once being in a house where four poor women, pitiful to relate, were lying dead at one and the same time. The mortality, in many instances, was greatly enhanced, too, by the homicidal practice, which I am sorry to say was too much encouraged, of giving and even repeating draughts of castor oil. It was too

"During 1854, it was, that some alterations in the building took place, and a communication subsisting with the infected town, the Belfast District Asylum for the Insane, to which I was and am visiting physician, was visited with cholera. It broke out with startling suddenness, and forty of the inmates very rapidly perished. Many of the inmates were very unfavourable subjects for the disease, and I began to fear for the whole establishment. mately convinced, however, of the infinite value of prevention, it occurred to me that if I could not only arrest, but anticipate the "The truth of this statement was abun- premonitory diarrhosa, I might also arrest dantly exemplified in the results of house- the disease. I immediately had prepared to house visitations. In Glasgow, for ex- some dilute sulphuric acid, of whose general rhosa, I had had ample experience; with mencement of an epidemic the majority of out waiting for the preliminary diarrhosa, I cases die, and appear to be unamenable to existing cases of the disease having run specific and certain cure, but have seen them their course to death or recovery, no other again fail and put saide. I have seen and instance of the malady occurred; and I had tried small and repeated doses of calomel; utter disappearance of the disease.

really and truly, a thing of the past."

service, either alone or in combination with { do more harm than good. iron. In prescribing strychnia in such { cases of diarrhosa I think a little ginger tea 1854 I confined myself chiefly to this. attention to diet, proved sufficient. If there treatment of cholera, and from the difficulty was pain, a few drops of some preparation of getting the saline powders prepared in of opium were added. In such cases, too, sufficient quantity, Dr. Campbell and myself chloroform and chlorodyne prove of service; were inclined to give sea water a trial but in all cases, even of diarrhoea, the treat- among the prisoners of the General Peni ment should be suited to the particular tentiary in Kingston. We had buckets of case."-Med. Times & Gas., April 14, sea-water brought from a distance from the 1866.

efficacy in the treatment of choleraic diar- says, "My experience is, that at the comsay, I gave to every inmate in the estab- any curative treatment. I have seen drugs lishment a daily dose of about a drachm of without number tried, and have heard each the dilute acid in peppermint water The and every one cried up for a time as a the unspeakable satisfaction, owing, as I also large doses of the same; also small and am intimately convinced, to the prophylactic monstrous doses of acetate of lead, the efficacy of the dilute acid, of witnessing the mineral acids, the alkalies, opiates, quinia, ipecacuanha, belladonna, mineral and vege-"I would strongly recommend, and as table astringents, cajuput oil, croton oil, strongly urge upon the attention of the pro. castor oil, turpentine, creasote, nitrate of fession, and indeed the general public, the silver, sulphite of magnesia, tartar emetic, advisability, coupled, however, in every mustard, table salt in large doses, 'Stevens' case with every proper general sanitary saline powders,' charcoal, chlorate of precaution, of having recourse, with respect | potash, euparoria or bitter bush, the to the entire community, of the prophylactic fresh juice of the aloe, and many others; efficacy of dilute sulphuric acid, and in the spirituous stimulants to intoxication, carvery manner in which I myself tested it. 1 bonic acid gas, the so-called 'Liverpool firmly believe, ever and always neglecting mixture, and other boasted formulæ, warm no effective sanitary precaution, that it baths, hot-air baths, external frictions, enewould make us virtually masters of the mata of all kinds, saline injections into the situation, and render the ravages of cholera, { veins ;-but, nevertheless, I fear the results have been very unratisfactory on the whole. Few of the first cases got well, and if they Treatment of Premonitory Diarrhea. - Dr. did I could not satisfy myself that their BOWERBANK says: "As regards the attacks { doing so was the result of what they had of diarrhoes so prevalent during the visita- {taken. I am quite certain that in the epitions of cholera, I have seen all sorts of demic of 1850 I saw much mischief done by treatment employed—as mercurials, opiates, the use of spirituous stimulants and of ipecacuanha, the mineral acids, laxatives, sopiates; so that in the epidemic of 1854 I antacids, and astringents; and I have seen almost entirely banished these remedies each and all succeed and fail in checking the from my practice. Calomel and other disease; in cases in which the looseness mercurial preparations are, in certain cases was troublesome and continuous, tending and at certain stages of the disease, useful; to dysentery not infrequent after an attack but they have no specific effect, and in the of cholera, I have found strychnia of much hands of the unprofessional are calculated to

"I think I have seen more good to arise cases, I generally gave it according to Mar. from the use of Stevens' powder than from shall Hall's formula. In the majority of any other mode of treatment-in fact, in with a few grains of carbonate of soda, with Having read of the use of sea-water in the shore, and this, well-iced by pieces of ice thrown into it, was doled out in small Treatment of Cholera.-" As to the quantities to the sufferers; they drank it treatment of Cholers," Dr. Bowenbank greedily, and strange to say, of the sevenicen ko

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cases who took it all recovered. Unfortunately it was not tried till towards the decline of the epidemic. In almost every case after the fourth or sixth dose the alvine dejections became tinged with bile, as also the contents of the stomach vomited."-Med. Times & Gaz., April 14, 1866.

Quarantine and Cholera .- Dr. Bower-BANK, in an article entitled " Lessons from the Cholera at Jamaica," says: "I have had no proof that any of the visitations I have seen were traceable to importation by a particular vessel; but I have known cholera introduced into a district and an island, and the disease not extend itself: thus, at any rate, proving that something more than mere introduction of the disease was necessary to its extension, and over which quarantine restrictions could exercise no influence. That cholera attacks certain districts or places, certain towns and streets, certain houses and rooms, and during the prevalence of an epidemic nestles there, I am confident, and I believe that in every such instance a bad sanitary status will be found to exist.

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"The great preventives of cholera and all other epidemic diseases are pure air, pure water, plenty of daylight, and eleanliness in its widest acceptation. Where these essentials to health exist, cholera may come, and may proclaim its presence by the occurrence of diarrhoa, borborygmi, cramps, and other well-known symptoms, and it may seize as a victim a person predisposed to disease by intemperance or depression of body or mind, but here it will not nestle.

"During the epidemic of 1850, I have known towns and villages nearly depopulated; whole yards and houses, ships in port. swept clean, and not an inmate left to tell the tale. But in all such cases neglect of sanitary measures and the open violation of Nature's laws explained the cause. It will thus be seen I am of the opinion that we have no power to exclude epidemic cholera. This mysterious visitor will come to our shores in spite of us; but we have the power to lessen its ravages and to deprive it of its time adopt the best means to rid us of those less dreaded (because more familiar and slower in their course) but more fatal culous disease.

"' Prevention is better than cure.' In no instance is the truth of this adage more obvious than as regards a visitation of epidemic cholera. Experience in all parts of the known world has taught us that its ravages may be lessened or prevented by judicious sanitary measures; but that where these have been neglected, for a time at least, after its advent, this disease resists or is but little amenable to curative treatment. In case of the outbreak of cholera in a notoriously unhealthy district, I believe, as regards the mass of the people, instead of, as hitherto, adopting the house-to-house visitation system and the unprofessional and wholesale administration of medicines, it would be far better that arrangements should be made to transfer the inhabitants, or as many as possible of them, to another place, even though it should be requisite to provide tents or to allow them to remain uncovered."-Med. Times and Gaz., April 14, 1866.

The Albumen of the Blood in Cholera .-The researches of M. FERNAUD PAPILLON on the chemical and physical constitution of the blood in cholera have been published in the Journal de l'Anatomie (No. 2), and deserve the notice of the profession. His observations on the nature of the albumen removed from the blood of cholera patients during the algide period show that that fluid differs materially from the normal albumen. The albumen was separated from the corpuscles by repeated filtrations. The following are the results of M. Papillon's experiments: (1) This albumen, placed for four days in water, became neither hydrated nor swollen; it remained just as it was when first added, although ordinary albumen is either dissolved or swells up under the same circumstances. (2) It does not dissolve in potash or soda, even at an elevated temperature, although ordinary albumen is soluble in these reagents, even at ordinary temperatures. (3) When treated with hydrochloric acid, it slowly dissolves, and the solution, instead of having the usual deep-violet colour, is only faintly sting, and in effecting this we at the same inted. (4) At the ordinary temperatures, common albumen decomposes rapidly a mixture of nitric and sulphuric acids, nitrous vapours being disengaged. Choscourges of our population, typhus and leraic albumen does not do so at the ordityphoid fever, and the entire class of tuber- nary temperatures. Ordinary albumen is very rapidly dehydrated by sulphuric acid: the choleraic albumen is affected only after a long exposure.—Lancet, June 9, 1866.

Cholera at Liverpool.—It appears from the Med. Times and Gas., June 2, 1866, that no new cases of cholera had occurred among the emigrants landed in Liverpool since 14th of May, and that there was no suspicion of the disease having been localized in any part of the borough. This is coupled with the following significant statement:—

"In 1854 the cholers, as now, reached Liverpool through the transit of emigrants, but did not immediately spread among the other inhabitants. Thus, though in the week ending April 8 of that year there had occurred numerous deaths among the passengers and crew of the American vessel Winchester, the disease did not fix itself in the town with anything like epidemic virulence until the third week of July, when a fresh importation of sick emigrants was attacked by cholera on board the ship Derigo. Then, unfortunately, there were co-existent all the climaterial causes and exciters of the disease, and from that time until the latter end of October it raged with fatal intensity."

The hope is expressed in a recent No. of the Lancet (June 16), "that note will be taken of the remarkable phenomena which have lately been presented in connection with the cholera in Liverpool. Its clear importation from an infected place; its frightful development under the insanitary conditions of a crowded emigrant ship; its quick and rapid disappearance under a better sanitary condition of the affected; its limitation by isolation, the only parties attacked beyond the original group, who came from an infected place, being those waiting upon the sick in various ways. These phenomena require no comment now. They involve no particular theory of contagion; but they involve the portability by persons or personal luggage of the cause of cholera, and are full of interest and importance. They go to show that cholera may be carried into a country, and may be 'stamped out' of it."

Progress of Cholera.—Cholera has broken out among the returning pilgrims from Mecca, and on the 26th and 27th of May last more than 100 deaths occurred from this disease at Djeddah.

The disease is still raging in Holland, and during the first week in June 85 cases, of which 55 were fatal, occurred in Rotterdam.

In the city of New York, according to Dr. Harris's mortuary report, six deaths from cholera occurred during the week ending June 16. Other cases have been reported, but it does not prevail as an epidemic. In other respects the health of that city, according to the Medical Reord (July 1), is unusually good. The number of cases at the Quarantine station, near New York, is decreasing.

At Elizabeth, N. Jersey, or rather in a filthy suburb of that city, it is stated in a New York paper of June 28th, that 21 cases have occurred, of which 9 proved fatal.

In Jersey City two well marked cases are reported.

One case is reported in *Baltimore*. The subject of it was a man who was attacked immediately after his return from New York, where he is supposed to have contracted the disease, which proved fatal.

MEDICAL NEWS. DOMESTIC INTELLIGENCE.

Library of the College of Physicians of Philadelphia.—We are happy to announce that through the liberality of their President, Dr. Geo. B. Wood, this college has been enabled to make arrangements by which their valuable and rapidly increasing library—already amounting to about thirteen thousand volumes—is daily open for the use of the Fellows of the College from 11 A. M. to 3 P. M., during which hours a member of the library committee is in attendance to lend out and receive books returned, and to aid the Fellows in consulting the works in the library.

Health of Philadelphia.—The following table, compiled from official sources, exhibiting the mortality from bowel complaints and also that from all diseases for each week in June during the years 1866 and 1865, shows that the general mortality is unusually small, and that from bowel affections, though slightly on the increase, as is always the case at this season, is far below that of last year. The total number of deaths for the

first six months of the present year, the last year. While this state of things con-Register of Deaths informs us, is about tinues no fears need be entertained of an two thousand less than for the same period outbreak of cholera in our city.

grains V		Mortality from								
		Cholera Infantum.	Diarrhœs.	Dysen- tery.	Cholera Morbus.	Total from Bowel Affec- tions.	Total Mor- tality from all Diseases			
Year 1866.	Name of Street	100000	Program	67.27						
Week endi	g June 2.	2	2	. 3	0	. 7	242			
41 41	" P.	5	3	2	0 2	12	247			
44 41	" 16,	9	3	1	1	14	284			
41 11	" 23,	7	5 8	0	. 0	12 14 12 61	266 -			
46 46	" 30,	47	8	2	4	61	335			
Year 1865.	00,			100	-	1000	- 300			
Week endi	g June 3.	4	5	2	0	11	298			
11 . 11	" 10,	8	7	2 2	2	19	278			
44 44	" 17,	30	9	4	0	43	293			
44 44	" 24,	30 53 89	9 12 15	9	2	76	369			
	July 1,	80	15		2	111	381			

Trichiniasis in Marion, Linn County, | nia, he recovered, for the amount of the Iowa .- In April last nine persons of one poison swallowed was estimated at twentyfamily in Marion, Iowa, who had eaten raw three grains, and thirty-five minutes elapsed ham, were attacked with trichiniasis. The before any of the remedies took effect. family consisted of ten, one of whom not having partaken of the food, escaped.

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Dr. H. Ristine, who attended the cases in consultation, writes us under date of June jeweller's shop, and asked for a drink of the remaining four he thought would recover. Dr. Ristine has very politely sent ered stone jar standing near it, such as is us a portion of the pseas magnus muscle of often used for holding ice-water, he lifted one of the victims to the disease, which we the cover and drank, without stopping to find on microscopic examination to be full look at it, about half an ounce of the liquid. of free triching.

It is said that six cases have also occurred Marion, in the same county.

It might seem surprising, were not the recklessness of persons so common, that any one should indulge in such a dangerous gratification of their appetite as to eat raw pork.

Poisoning by Cyanide of Potassium through Carelessness .- Two cases of this are recorded in a recent number (June 21, 1866) of the Boston Med. and Surg. Journal, which deserve public attention.

liquid, which he supposed to be water, and and the wonderful escape from death in the swallowed about three drachms before he former case, were undoubtedly in great part discovered his mistake. In two minutes lowing to the fact that the stomach was filled he became senseless, and was taken to the with food, and that on this account the hospital, and strange to say, after an emetic, {poison was not so rapidly converted into the use of the stomach-pump and of ammo- { hydrocyanic acid and absorbed.

The other case occurred a few days ago under similar circumstances. A thirsty man, a stranger amongst us, went into a 18th, that of the nine attacked five had died, {water. He was directed to the rear where the sink was situated. Seeing a large cov-He became insensible in five minutes. It was found impossible to administer an in a family residing twelve miles north of emetic of sulphate of zinc in the apothecary's shop, whither he was at once taken, or later to use the stomach-pump at the hospital. He died in thirty minutes after drinking what he supposed to be a harmless draught of water. The liquid was a solution of cyanide of potassium in water, of the same strength as that swallowed in the first case, a pound to the gallon. The quantity taken was therefore about half a drachm of one of the most deadly poisons known, of which two or three grains are sufficient to kill a large animal, and five In the first, a porter in a machine-shop, grains have destroyed human life in several feeling thirsty dipped a tin cup into a jar of instances. The prolongation of life in this,

The editor justly remarks:-

tions respecting the use and sale of poisons, and if the same energy which is exercised in the enforcement of the liquor and Sun- throughout the surrounding country. day laws were turned in this direction, much good would result."

Wholesale Poisoning by Lead .- During the past spring a large number of persons residing in the Walkill Valley, Orange County, New York, were attacked with symptoms of lead poisoning.

A correspondent of the Public Ledger

(Philadelphia) states that :-

"After considerable research it was found that the lead was taken by the sufferers in bread and meal, and as a greater part of those staples were manufactured at a mill in Phillipsburg, an investigation was at once made in that direction, and the following

facts were elicited :-

"It appears that the proprietor of the mills had gained a reputation for the superior quality of his flour, and that the farmers, for many miles around, were in the habit of bringing their wheat and corn to his mill to be made into flour and meal. Aside from this, he exported largely, so that his mill was kept constantly going, by night as well as by day. One set of stones was set apart for his "custom" work. This was an old set, constantly needing repairs, and large cavities frequently manifested themselves, which, instead of being filled up with the cement generally used for that purpose, were filled with common lead. Some of these holes were as large as a hen's egg: one, we are informed, being as large on the surface as the palm of a man's hand.

"If when filled the lead projected above the surface of the stone, it was hammered down level. Of course the attrition of the grinding detached minute particles of lead from the stone, and mingled them with the flour. The lead thus communicated, when fermented and subjected to baking with the flour, was immediately transformed into

poisons.

the sufferers, samples of the flour were an- ing the name of the author.

was, however, subjected to the usual stand-"We are far too lax in our police regula- and tests, all of which revealed the presence of lead in considerable quantities. Of course, these revelations caused a panic

"A statement of the leading physicians of this vicinity shows two hundred and thirteen cases of lead poisoning. I am informed that over one hundred cases have occurred in the vicinity of Goshen. Many of the victims are prominent citizens.

"I am informed that a quantity of the flour has been shipped to New York, and that seven cases of poisoning from it have oc-

curred in that city."

Stevens Triennial Prize .- A Prize Fund of one thousand dollars has been established by ALEXANDER H. STEVENS, M. D., Ex-President of the College of Physicians and Surgeons. New York, for the improvement of Medical Literature, on the following plan.

Each Prize to be awarded triennially is to consist of the interest yielded by the principal fund during the previous three years, and will amount to about two hun-

dred dollars.

The administration of the Prize is intrusted to a commission, consisting of the President of the College of Physicians and Surgeons (ex-officio), the President of the Alumni Association (ex officio), and the Professor of Physiology (ex-officio), in the same institution.

The following subjects have been selected, at the request of Dr. Stevens, for the first triennial Prize under this fund

1st. The best means of preventing death after surgical accidents.

2d. The history of improvements in the medical art, and the means by which they are attained.

The competing essays on either of the above subjects must be sent in to the President of the College of Physicians and Surgeons, New York, on or before the first carbonate of lead, one of the deadliest of day of January, 1869. Each essay must be designated by a device or motto, and must "As soon as it was ascertained that the be accompanied by a sealed envelope heardisease originated from the bread eaten by ing the same device or motto, and contain-

alyzed by Dr. Dorrance and Mr. King, a The envelope belonging to the successful chemist, of Middleton. These gentlemen essay will be opened and the name of the found, to their astonishment, that the lead author announced at the annual comcould be discerned with the naked eye. It mencement of the College in March, 1869.

EDWARD DELAFIELD, M. D., President of fessor of Materia Medica and Therapeutics. the College of Phys. and Surg.

ALFRED C. POST, M. D., President of the Alumni Association of the College of Phys. and Surg.

J. C. DALTON, M. D., Professor of Physiology in the College of Phys. and Surg.

College of Physicians and Surgeons, New York .- Dr. FREEMAN J. BUMSTEAD has been appointed Professor of Materia Medica and Clinical Medicine in place of the late Prof. Jos. M. Smith; and Dr. H. B. Sands adjunct Professor of Anatomy.

Destruction of the Building of the University Medical College and its valuable Contents.-We regret to make the announcement that the building of the University Medical College of this city was completely destroyed by fire on the night of the 21st of May. The valuable museums of Professors Mott and Post have been entirely lost, together with the immense and costly laboratory of Professor Draper, and the rare collection of shells and minerals belonging to the Lyceum of Natural History. Notwithstanding, however, this appalling catastrophe, we are happy to be able to state that the Faculty have not allowed a single? day's intermission in the spring course of lectures. The upper portion of the Demilt Dispensary is now being temporarily used for a lecture room. The friends of the College will be glad to learn that the institution is to be at once rebuilt, with many additions, and that the work will be carried on as rapidly as possible.-Medical Record, June 1, 1866.

Atlanta (Geo) Medical College .- This institution commenced its eighth regular summer course of Medical Lectures on the 7th of May last. The faculty consist of: John W. Jones, M. D., Emeritus Profes sor of Practice of Medicine; J. P. Logan, M. D., Professor of Theory and Practice of Medicine ; A. Means, M. D., Professor of Chemistry and Pharmacy; D. C. O'Keefe, M. D., Professor of Anatomy; T. S. Powell, M. D., Professor of Obstetrics and Diseases of Women and Children; Eben Hillyer, M. D., Professor of Physiology; W. F. Westmoreland, M. D., Pro- obliged to appeal to the members of the fessor of Surgery; S. H. Stout, M. D., Pro- American Medical Association for contribu-

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This Prize is open for universal compe- fessor of Surgical and Pathological Anatomy; J. G. Westmoreland, M. D., Pro-

> The faculty have made arrangements for using the Freeman's Hospital for Clinical instruction.

> Economical Sieves .- Dr JOHN PARSONS, of Mount Pleasant, Kan., writes to ua:-

"For sifting dry powders sieves may be of stiff paper punched with needle holes the size of the needle making the sieve fine or coarse. The sieve may be made of any size required and secured in a drum as is the ordinary wire sieve, they are easily cleaned, cheap, and may be found useful by some practitioners."

The New Sydenham Society .- This very useful society announce the following works to be published for the current year's subscription :-

I. Bernutz and Goupil: Clinical Memoirs on Diseases of Women. Vol. I. Edited and translated by Dr. Meadows.

II. Hebra on Diseases of the Skin. Vol. I. Translated by Dr. Hilton Fagge.

III. Griesinger's Manual of Mental Diseases. Translated by Dr. Lockhart Robertson, and Dr. Rutherford.

IV. The Society's Atlas of Skin Diseases. A Sixth Fasciculus, to comprise (in three beautifully coloured plates 18×24 inches) Illustrations of-Eczema Impetiginoides on Face of Adult; Eczema on the Face, &c. of Infant; Eczema Rubrum on Leg of Adult; Psoriasis of hands and Finger Nails; Syphilitic Psoriasis of Finger Nails; Congenito-Syphilitic Psoriasis of Finger and Toe Nails; Onychia Maligna; Chronic General Onychitis.

We invite the attention of our readers to the advantages offered to subscribers for obtaining at a comparatively small price the valuable publications issued by this society.

For terms of annual subscription, or for list of works published, application may be made to RICHARD J. DUNGLISON, M. D., Honorary Local Secretary, 39 S. 11th St., Philadelphia.

American Medical Association.-The Committee of Publication have issued the following circular :-

"The Committee of Publication are

the last meeting.

"The amount of assessments at the meet. ing in Baltimore falls short of that required { cannot be published.

agreed to give a hundred dollars if there is the country." any prospect of aid from others. You are earnestly requested to contribute and to for-} ward whatever amount you may be disposed | publishes several advertisements taken from to give, to Dr. C. Wister, 1303 Arch street, our Boston contemporary, to show that pro-Philadelphia."

Physicians' Advertisements .- We commend to the attention of the profession the fession in Boston has gained nothing by the following just remarks extracted from an method of advertising practised by certain editorial in our contemporary, the Boston specialists there. Med. and Surg. Journ., May 10th, 1866.

"The frequent abuse of the mistaken leniency which allows a physician publicly to announce or recommend himself, has become so frequent among us of late, as to call for some notice from us and for stringent action on the part of our State Medical Society. Until recently the announcement of practice, was the extent of what was conof this city every day containing the advertisements of members of our body which can in no way be distinguished from those of some professional quacks. Not satisfied, moreover, with seeking notoriety by special and extra puffs in the columns of the daily journals, disgraceful exhibitions of machinery and written promises to cure are Dr. Norta, of Lisieux, which drew from conspicuously presented to the gaze of the the members some interesting remarks, a passer-by in office windows, pamphlets containing accounts of wonderfully successful cases are published for public distribution, and self-laudatory circulars are issued for the Veterinary Pharmacopæia is composed the medical reader.

"There is another class of advertisements which is also becoming more frequent, and which, although hitherto considered at least not improper by some of the profession, is so liable to abuse in its present undefined condition, that it has become a matter worthy of grave consideration. We mean

tions of money to defray the expenses of the cards of so-called specialists published printing and illustrating the transactions of in a medical journal. It is a custom which has so gradually sprung up in this city as to have become an almost recognized law amongst us, and we do not in the least inby more than one thousand dollars, and un-} tend to reflect upon the gentleman who have less this deficiency is supplied the volume { availed themselves of its privileges. It is a custom, however, which is confined to our-"Many members have expressed their selves, and which would be considered willingness to contribute, and one has entirely unprofessional in any other part of

The editor of the Medical Times and Gazette (London), in a recent number, refessional advertising in American journals differs from what is allowable in England. The dignity and respectability of the pro-

OBITUARY RECORD .- Died, in Boston, June 21, 1866, REUBEN D. MUSSEY, aged eighty-six. Dr. Mussey was one of the most eminent Surgeons of New England, and was for many years Professor of Surgery in Dartmouth Medical College, in his native State. About the year 1838 he reof a change of residence, or of a resumption moved to Cincinnati, Ohio, and was appointed Professor in the Miami Medical sidered justifiable by the laws of professional College, which he held until some ten years decorum, although even these exceptions ago. He communicated a number of very have sometimes overstepped the limits of valuable papers to the American Journal of propriety by being-kept too long before the the Medical Sciences, among others one on public eye, but now we find the newspapers fractures of the neck of the thigh-bone within the capsular ligament.

FOREIGN INTELLIGENCE. '

Liquor of Villate .- M. Houel presented to the Imperial Academy of Medicine (May 2, 1866) a pamphlet on this preparation by summary of which may interest our readers.

The liquor of Villate is an astringent and escharotic preparation which according to as follows -

Liquid Subacetate of Lead 30 parts Crystallized Sulphate of Copper,

Crystallized Sulphate of Zinc, āā . 15

White Vinegar . ** Mr. N. has employed this preparation

with success for many years in the treat- having been turned forwards from the ribs, ment of caries, and of fistulæ following cold abscesses. The memoir of Dr. Notta contains numerous striking cases drawn from his own practice and that of M. Nelaton showing the efficacy of this preparation. There is much difference of opinion, however, among the members of the Society of Surgery of Paris in regard to this article. MM. Houel, Léon, Labbé, and Desormeaux assert that they have obtained the best results from its use, and have never seen any injury or even serious inconvenience result from it.

On the contrary MM. Legouest, Chassaignac, Boinet, Le Fort, and Laborie, state that it occasions excessive, insupportable pain, irritation and very serious inflammation. Finally MM. Follin and Verneuil have used it sometimes with good, sometimes bad effects; both have found injections of the fluid induce acute pain, the first has never seen any injury result, the second has witnessed severe inflammation which, however, resulted in a cure. - Revue de Thérapeutique Méd .- Chirurg., June 1, 1866.

The Baneful Effects of Nicotine prevented .- M. MELSENS has found that tobaccos, from various countries, contain nicotine in very different proportion. In tobacco from some parts of France (e. g., the department of the Lot) there is 7.96 per cent. of nicotine; whilst Havana tobacco contains only two per cent. He proposes to smokers a way of preserving them from the effects of the alkaloid, and advises them to put into the tube of the pipe or cigar-holder a little ball of cotton, impregnated with citric and tannic acids. As the smoke passes through the cotton, it will deposit the nicotine therein, in the shape of tannate and citrate. M. Melsens has made very ingenious experiments, which go a very great way to prove that he is perfectly correct .- Lancet, April 7, 1866.

Extirpation of Scapula .- M. MICHAUX, of Louvain, has lately presented a memoir by the symptoms then present and the subto the Academy of Medicine of Paris giving | sequent good health of the subject, but also an account of the case of a boy, aged fifteen, by the fact of two of her servants having from whom he successfully removed the then died suffering from similar symptoms. right scapula, for an encephaloid tumour It is an interesting speculation how far involving that bone and its muscles, in there is any etiological connection between November, 1864. The shoulder-joint was the trichiniasis and the cancerous degenera-

and the disarticulation being effected with the écraseur. The boy reçovered from the operation, but died in the following September of a cancerous tumour of the mediastinum .- Gaz. Médicale.

Trichina in a Cancerous Tumour .- Dr. KLOPSCH relates in the April number of Virchow's Archiv the case of a lady who consulted him in 1857 concerning a tumour of the right breast, and on interrogating her concerning her previous health, he found that this had always been very good except at one period-viz., in 1842-when, while residing at Dresden, she became the subject of severe pains in the joints and limbs, followed by paralysis. After a while anasarca appeared, and continued many weeks. At the end of three months from this her health began to improve, and after four months' confinement to bed she recovered. Later, she married and bore a child, and, in fact, continued in good health, with the exception of occasional muscular pains. The tumour in her breast had appeared since early in 1857, and exhibited the signs of carcinoma, and the glands of the axilla having become slowly affected, while the cancer cachexia was not developed, Professor Middledorpf amputated her breast in May, 1863. Two years later, cancerous infiltration of the axilla having appeared, and the patient's general health being good, it was resolved to excise such parts. While separating these from the subjacent intercostals, Professor Middeldorpf observed that they were beset with white granules, which he suspected to be trichina capsules. Examined microscopically, every portion of the muscle the size of a pin's head was found to contain four or five completely calcified trichina-capsules, trichinæ, on a section being made, being found free and living. This is the first instance on record in which twenty four years after an invasion of trichiniasis, living trichinæ have been still discoverable. That they really were deposited in 1842 is shown, not only disarticulated and the arm left, the scapula tion .- Med. Times and Gaz., June 9, 1866.

be assured of a protection from the action Gaz., Feb. 17, 1866. of the air analogous to that afforded by the skin in the case of subcutaneous wounds, and therefore, freed from suppurative inflammation, enabled to heal by immediate union. paratus was re-applied until the eighteenth excessive and truly fearful cutting powers

Treating Wounds by Pneumatic Occlu- day: neither fever, suppurative inflamma. sion .- M. JULES GUÉRIN, who during the tion, nor notable pain occurring during the last thirty years has been developing the treatment. (4) The palm of the hand having principles and practice of subcutaneous been much shattered by the explosion of a Surgery, read at the last meeting of the cartouche exposing the metacarpo-pharyn-Academy of Medicine a memoir on the geal articulations, fifteen sutures had to be "Treatment of Exposed Wounds by Pneu- applied to bring the fragments of skin matic Occlusion," intending by this not together before the part could be placed in very well expressed title to indicate the the apparatus. Once there, however, all action of an apparatus which he has con-suffering ceased, elimination of mortified trived, by the aid of which open wounds parts taking place with ease, and excellent involving the skin and subjacent parts may cicatrization following .- Med. Times and

New Galvano- Caustic Knife .- At the Société de Chirurgie, M. BROCA exhibited a new galvano caustic knife, invented by After trying a long series of experiments by M. Sérő, of the Military Hospital at Vincovering the wounded surfaces with various cennes. The blade of this knife, formed substances capable of isolating them from of platinum, can be heated as high as 1500° the atmospheric air, and finding these one C. by the passage of a galvanic current after another fail, either by reason of the from a Grenet pile. Platinum being a soft penetration of the air or the accumulation metal, this blade has no cutting edge, but and putrefaction of the products of secretion it requires an excellent one under the influand exhalation—he believes that he has now ence of the electrical heat, which instantly devised an apparatus capable of successful communicates to it a special temper, the application. Envelopes of various forms and blade again becoming blunt upon the abatedimensions formed of vulcanized caoutchouc ment of the heat. At 1500°, a white-red are adapted to any part of the body, and heat, the vessels cleanly divided remain when applied to the injured part they are open, and the blood issues freely out. The introduced into a metallic receiver, which is instrument is, in fact, graduated from 1500° kept constantly exhausted. Between the to 600°, the heat being increased or diminwounded surface and the caoutchouc enve-{ ished by a very simple procedure, which lope is placed a very thin, permeable tissue, consists in elongating or shortening the in order to facilitate exhalation from the portion of platinum comprised in the circuit. surface. Capable, as M. Guérin believes, The blade can thus be made to pass through of a very wide application, this apparatus all the intermediate degrees from a whitehas at present been tried in the following heat at 1500° to a dull red at 600°; and by cases-viz., (1) An excoriated wound left means of these graduations the instrument after the removal of a fibrous tumour from can be made to fulfil three different surgical behind the malleolus, was covered with indications-(1) at 1500° it divides the some waxed silk and placed in the air-tight tissues, producing hemorrhage; (2) at 6000 apparatus, rapid cicatrization without sup- hemostasis is produced at the same time purative inflammation following. (2) In a as the incision; (3) and between these two fracture of the forearm, with a fragment of limits it divides and cauterizes simultanethe radius penetrating the skin, the same sously. It is, moreover, in its mechanism mode of dressing was applied, and at the an ingenious improvement upon the galvanoend of the fourth day, the wound of the causiic knife already in use. M. Demarquay skin having become closed, the case was observed that he has once had occasion to treated as a simple fracture. (3) After an employ the instrument, and he became amputation of the thigh the flaps were alarmed at the extreme facility with which brought together by seven points of suture, this knife, without a cutting edge, cuts and the stump having been placed in the through the tissues; and if care be not taken apparatus, cicatrization was found to have much more of these may become divided become completed by the seventh day. As than is intended. He thinks surgeons it was not sufficiently solid, however, the ap- should have their attention drawn to the

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1 oxy of this knife. M. Broca could really see Andrews and Tait may be considered as nothing alarming in the powers of the knife; but that may be from his temperament being different to that of M. Demarquay .- Ibid.

Alcoholized Milk for Infants .- M. JULES Smon, in his new work Le Travail, states that at Jelle and Rouen there are some women so saturated with intoxicating liquor that their infants refuse the breast of a sober woman. In the mountains of the Vosges the infants drink brandy .- Lancet, April 7, 1866.

Poisonous Principle of Mushrooms .- Dr. Letelleir says, that the poisonous substance in mushrooms is a fixed, non-crystallizable, narcotic principle-amanitine. It is precipitated by iodine and tannin. The treatment for poisoning thence resulting is vomiting and purging, followed by a strong ageous solution of tannin .- Brit. Med. Journ., April 7, 1866.

Deodorizing Properties of Ground Coffee. -Dr. BARBIER affirms that ground coffee possesses some remarkable properties as a disinfectant. In several cases where he had to make post-mortem examinations of bodies under very disagreeable circumstances, he found that a handful of coffee strewn over the body and about the room quite overcame any bad odour .- Lancet, April 21, 1866.

Ozone.-For the past few months our continental neighbours have been making known some valuable additions to the knowledge of this body, to the more interesting of which we shall call attention.

Our readers are probably all aware that the existence of a substance, called by its discoverer ozone, was made known to the scientific world by Schænbein. He did not then isolate it as hydrogen, iodine, magnesium, or other substances have been isolated; nor has he or the other workers at the subject succeeded in doing so since, although more than the quarter of a century has elapsed since its nature first became matter for investigation.

To form it there must, all are agreed, be

setting the question at rest, at least, so far as this: From oxygen alone some of the phenomena indicating the presence of ozone can be obtained. The question is not so satisfactorily answered as to whether the substance that is formed in presence of water-vapour, and answering to the tests of ozone, is formed from oxygen only, or from a combination of oxygen and water.

But we must not say more of its nature until we have stated some of the means of obtaining it, or, more correctly speaking, obtaining indications of its existence. If perfectly dry and pure oxygen gas be electrified by passing a series of sparks through it, or, even better, according to Dr. Andrews, by silently discharging machine-electricity through it, ozone is produced. That is to say, the oxygen acquires new properties. It acquires a peculiar smell, such as is observed on standing near a large electrical machine in action, or much like that of a dense fog. It diminishes in volume. It becomes capable of oxidizing bodies in a way that it could not do before, so that it becomes corrosive, destroying most organic substances, such even as caoutchouc, and acting on metals, even silver, oxidizes and decomposes salts ordinarily stable, such as sulphate of magnesia and iodide of potassium, and even combines with the inactive substance nitrogen (in the presence of moisture). It is practically insoluble in water, but is absorbed by it if the water contains a material quantity of organic matter. If the oxygen which has been thus changed is treated with some of the substances affected by it, these active properties disappear, and a great part of the original oxygen employed is left unchanged. But Fremy and E. Becquerel have shown that by electrifying the oxygen in contact with moist metallic silver, or a solution of iodide of potassium, all the oxygen can be so changed as to be absorbed by these substances.

Other methods of forming ozone in the presence of water are by gently heating a mixture of air and ether vapour, or by exposing clean moist phosphorus to the air. In these cases the formation of the ozone seems to be simultaneous with the partial oxidation of the acting substance. It is also oxygen, but we can hardly say that all are formed during the electrolysis of dilute sulalso agreed that there must not likewise be phuric acid, or, as it is the fashion to say, hydrogen, or rather, perhaps, water. On of water acidulated with sulphuric acid. the whole, however, the experiments of And also by the action of sulphuric acid tory methods.

fermentation and the growth of moulds, and it is believed to be very generally produced { during oxidation at ordinary temperatures. It, however, can hardly be said for certain that oxidation is a cause of the ozonization of oxygen, as we know that all the oxidations that do take place are producible by ozone itself, so that it may be that ozone is then these bodies begin to oxidize under the action of the ozone.

Now, with regard to the test of its presence, there are several, but there is hardly one of them which cannot be challenged as an uncertain indication of it. One of the earliest tests employed, but seldom used now, was a white paper impregnated with sulphate of manganese, an almost colourturned blue, or a colour approaching it, by ozone, potassa being produced and iodine liberated, which then forms the blue compound of starch and iodine. M. Houzeau has introduced, and for a long time employed, strips of wine-coloured litmus-paper, liberating iodine which will not affect these papers. For these other substances liberate the iodine by forming a neutral salt with the potassium, such as acid vapours, chlorine, etc., but ozone does so by forming potassa, with the unchanged colour.

on peroxide of barium, and by other labora- ness to the senses by the action of this body. Its active chemical properties render it a It has been shown to be formed during powerful irritant to mucous surfaces. By heat ozonized oxygen loses all the properties of ozone, and regains its own; among others, its proper volume.

We have also to say a little concerning the destiny of ozone. Since oxygen converted, or partly converted, into ozone, contracts in volume, it is evident that ozonized oxygen must be denser than ordinary produced by the contact of oxygen with oxygen. Attempts have recently been made these bodies, or in other ways, and that to determine its destiny, by M. Soret. We must mention that when ozonized oxygen is exposed to the action of iodide of potassium or moist silver, it loses its peculiar properties, except that it does not reassume its original volume, as it does when heated. Further, that the loss of oxygen is accounted for, and the absorption of ozone proved, by the fact that a quantity of iodine chemically equivalent to this oxygen or ozone is less salt. This paper is turned brown by set free from the iodide of potassium. It is the formation of hydrated peroxide of man-{ just possible, it seems to us, that ozone may ganese. Another test, proposed by Schon- be a vapour of very low tension, of a highly bein, and the one most in use at present, is volatile liquid, which we have not yet been white paper impregnated with starch-paste able to get in sufficient quantity in a given and iodide of potassium. This paper is space to make it reach the point of maximum density, when formation of liquid would take place. For, then, the slight loss of elastic force by the absorption of it from its mixture with oxygen might well escape observation. However, chemists do not seem to hold this view. The one which half of each of which only is impregnated has for some years been suggested is that with iodide of potassium. This he does ozone is half as dense again as oxygen. because there are other substances that are On this hypothesis, iodide of potassium is liable to change the iodized starch-papers by { considered to absorb one-third of the matter of ozone, and to liberate the other twothirds as ordinary oxygen. This, of course, requires the further admission that the ozone behaves as if formed of two kinds of matter, two kinds of oxygen, and that it which is alkaline. This akalinity his pa- is an exide of oxygen having the formula pers indicate by the part charged with the O2, O. We shall not pretend to criticize this iodine becoming, under the influence of hypothesis. We refer to it here, partly beozone, blue from the action of the potassa cause M. Soret has attempted to determine on the violet litmus, and then contrasting the density of ozone, and he finds his experiments confirm the view that three volumes We have already indicated the most of oxygen are condensed to two. He has striking properties of ozone, but there are discovered that oil of turpentine so acis still some things requiring notice. By its upon ozonized oxygen as to cause the powerful oxidizing action on organic matter, volume of the gas to diminish, instead of it quickly purifies air or water charged with this remaining unchanged, as when iodide organic matters, removing smell and taste of potassium acts upon it. He concludes from them. Indeed, the most offensive from this that iodide of potassium decommasses of putrid matter lose their offensive. sposes this compound oxygen, or ozone, and

absorbs part, while turpentine absorbs it \ Annual Prizes of the Imperial Academy of

April 7, 1866.

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Mortality of London.-The mortality of the metropolis continues to be greatly beyond the ordinary average. In the week ended Saturday, June 9, the number of deaths was 1313, the average of the ten previous weeks being 1087. Measles, scarlatina, whooping-cough, typhus, and diarrhoes continue to be unusually fatal. Four fatal carriage accidents in the street are registered, and three deaths from cholera .- Lancet, June 16, 1866.

ance at Altenburg, a town in Prussia. in cantonments near to Altenburg, the as Professor of Chemistry to the Royal medical officers have taken all precautions should it spread to the troops. Other descriptions of sickness are very prevalent in the Prussian army. One thousand sick one of those missions of love and mercy in soldiers have already been sent back to Austrian army .- Ibid.

wholly. Granting the truth of this conclu- Medicine. - These were announced on the sion, our readers will at once understand 12th December last. The Academy prize that if, as in the experiments of M. Soret, of 1000 francs was adjudged to Dr. Martin. two measured quantities of the same its subject being Traumatic Paralysis. ozonized oxygen are taken, and the one Baron Portal's prize of 1000 france, "On acted upon by turpentine and the other by the Specific Anatomical Characters, if there heat, that the volume of oxygen equal to be any, of Cancer," was gained by M. the ozonized gas will be learned from the Cornil. There were six competitors for latter action, and the quantity of unchanged Madame de Civrieux's prize of 1000 francs; oxygen in a given bulk of the gas from the the question being, "The Relations between The difference between the General Paralysis and Madness." volume of the original oxygen and that of Magnan took the prize. Capuron's prize the unchanged oxygen will give the quan- of a like value, "the Pulse in the Puerpetity converted into ozone; the diminution ral State," was not adjudged. An enin the bulk of the ozonized gas caused by couragement, however, of 600 france was turpentine will give the volume of the given to M. Hemey, one of three compeozone absorbed by it. M. Soret found in titors. Baron Barbier's impossible prize this way that the volume of the ozone ab- of 8000 france, for a cure of incurable dissorbed by the oil of turpentine was produced eases, found seven candidates. A prize from a volume almost half as great again of 7000 francs was adjudged, as the nearest oxygen. Hence he concludes that the den- approach to the programme, to M. Chassity of ozone is half as great again as that saignac, as author of "Ecrasement Linéaire." M. Amussat's prize of 2000 francs We have so much more to say about found four candidates, but no takers; but ozone, more especially as regards the late recompenses were given to two of them. controversy as to its existence or not in the Eight works were sent in for Godard's prize atmosphere, that we must reserve this for of 1000 francs; but the Academy gave another article .- Med. Times and Gazette, only two recompenses - Brit. Med. Journ., Dec. 23, 1865.

> Treatment of Acute Rheumatism with Blisters .- The Weiner Medizin Wochenschrift says, that the method of treating acute rheumatism with blister laid on the inflamed joints was first practised by Dr. Dechilly, of Vaucouleurs; and that in 1850 he communicated a paper on the subject to the Paris Academy of Medicine, through Martin Solon .- Brit. Med. Journ., April 7,

OBITUARY RECORD. - Died, At Tunbridge Wells, on Feb. 11, 1866, W. T. BRANDE, Sickness in the Prussian and Austrian Esq., F. R. S., aged 81. Dr. B. early in Armies.—The cholera has made its appear- { life devoted himself to chemical studies, and was for some time assistant and after-The right flank of the Prussian army being wards the successor of Sir Humphry Davy Institution of Great Britain. He was a voluminous writer.

- At Jaffa, whither he had gone on which he delighted, on the 5th of April, Berlin; and it is stated that illness reduces Thomas Hodekin, aged 68. Dr. H. was a the effective men one per cent. a day. physician of great talent, was a fine scholar, Typhus has made its appearance in the an accomplished linguist, and a warm hearted philanthropist.

THE

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It may be added that no pains or expense have been spared to render the mechanical execution of the volume worthy in every respect of the character and value of the teachings it contains.

Dr. Hodge having been engaged for thirty-one years in the teaching of obstetries, has very justly thought that the results of his large experience and reflections might be of advantage to the profession. These he has therefore communicated in a handsome, well illustrated volume. An excellent text-book; while he shows that in the management of parturient women he has been guided quite as much by his personal experience as by the teachings of other men. A valuable contribution to medical literature. It gives evidence of very hard work, and it shows that Dr. Hodge may say, in the words of Baudelocque, "Though the reading of authors has been of great use to me, it will be found that the study of nature has been of much more."—London Lancet, Aug. 20, 1864.

e work of Dr. Hodge is in the highest degree reditable to its author, and confers no trifling honor upon the school whose chair of Obstetrics he so long and so ably filled. It cannot fail to become, at least and so ably filled. It cannot fail to become, at least with American practitioners, a standard authority; the author being as much distinguished for his intermet acquaintance with his subject, in all its details; his long experience and admirable skill in the practice of Obstetries; his entire accuracy and perfect faithfulness in the report of his experience—in its bearing, especially, upon every unsettled question, whether relating to the science or the art of Midwifery. They who shall rise from a careful study of the mechanism of labor as described by Dr. Hodge in the work before us without clear and exact views in regard to it, will scarcely be able to master the subthe work before us without clear and exact views in regard to it, will scarcely be able to master the subject after the most careful demonstration of it by the most accomplished teacher. It constitutes, very certainly, one of the fullest and most complete treatises on the principles and practice of Obstetries that has yet appeared in either Europe or America; and we may safely add, the most reliable. On whatever question in mid wifery the practitioner may consult it, he will find always the needed information, and may repose the fullest confidence in following it that he will not be led into grievous error.—Amer. Med. Journal, July, 1864.

Great labor has been bestowed upon the prepara-

tion, and great expense incurred in the publication of this work. It is astonishing that such an extensive and complete treatise upon any branch of medical practice should appear at such a time, and shows that the medical profession of America are anxious to be in possession of all that is known upon the subject. We have no work in our language so extensive and complete upon the art and practice of Obstetries; and thoush several works of great merit have appeared thoush several works of great merit have appeared though several works of great merit have appeared within the last few years, still, no medical library can be considered complete without this volume.

The illustrations are numerous and complete; an illustrated work, it is superior to any which has

The illustrations are numerous and complete; as an illustrated work, it is superior to any which has appeared. We should be glad to give a list of the subjects represented, but suffice it to say that everything desirable has been faithfully and naturally represented by lithographic plates, prepared with great accuracy and care. On this account, as a textbook for the student and young practitioner, it is of incomparable value.—Buffulo Med. and Surg. Journal, July, 1864.

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More time than we have had at our disposal sines we received the great work of Dr. Hodge is necessary to do it justice. It is undoubtedly by far the most original, complete, and carefully composed tresties on the principles and practice of Obstetrics which has ever been issued from the American press.—Pacife Med. and Surg. Journal, July, 1864.

The work is published in quarto form. A leading feature will strike the reader in the lithographs figures from original photographs, which illustrate more perfectly than the ordinary wood-cuts everld, the anatomy of the parts involved, and the mechanism of labor. The mechanical execution throughout is fully equal to the best work, for which the enterprising publishers are so justly celebrated.

We have examined Professor Hodge's work with great satisfaction; every topic is elaborated most fully. The views of the author are comprehensively stated. The rules of practice are justicious, and will enable the practitioner to meet every emergency of obstetric complication with confidence.

—Chicago Med. Journal, Aug. 1864.